



Porous Material Inc. (USA)

Envelope Surface Area Analyzer



Description :

PMI's External Surface Area Analyzer (ESAA) offers a simple, fast, and reliable technique for external surface area measurement - a measurement not readily achieved by static nitrogen adsorption (BET) methods. The ESAA's innovative use of flow permeametry combined with its sophisticated self-adjusting viscous-flow controller enables testing of a wide range of powder samples, including materials with surface areas of only several square meters per gram.

Applications / Features :

Providing the user with a surface area measurement in less than five minutes, the main application of the WESA is quality control. The WESA is utilized for this function in several industries, ranging from the pharmaceutical to the ceramic industry. Samples tested include pharmaceutical powders, electrode components, and ceramic powders.

- ✚ Uses nitrogen or other non-corrosive gases; no expensive gas mixtures required
- ✚ Windows-based software handles all control, measurement, data collection, and report generation; manual control also possible
- ✚ Compatible with Windows 95 or higher
- ✚ Real-time graphical test display depicts testing status and results throughout operation
- ✚ Non-destructive testing
- ✚ Length of test approximately 5 minutes
- ✚ Wide range of acceptable sample types and sizes
- ✚ Minimal maintenance required

Specifications :

Surface Area Range	0.1 - 10 m²/g
Sample Size	1 - 10 cc
Pressure Range	0 - 500 PSI
Pressurizing Gas	Nitrogen or any non-corrosive gas
Pressure Transducer Range	0 - 500 PSI
Mass Flow Transducer Range	10 cc/minute - 100 cc/minute
Power Requirements	110/220 VAC, 50/60 Hz
Dimensions	17" H x 7" W x 17" D
Weight	30 lbs

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